

## SEQUENCE LISTING

<110> RIKEN

AJINOMOTO CO., INC.

<120> A METHOD FOR INCREASING STRESS-RESISTANCE TO A PLANT

<130> 204934US-3534-10-0

<150> JP 2001-72668

<151> 2001-03-14

<160> 4

<170> PatentIn Ver. 2.0

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<211> 750

<212> PRT

<213> Glycine max

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1

5

10

15

His Gly Lys Thr Ile Leu Thr Gly Val Pro Asp Asn Val Val Leu Thr

20

25

30

Pro Gly Ser Gly Arg Gly Leu Val Thr Gly Ala Phe Val Gly Ala Thr

35

40

45

Ala Ser His Ser Lys Ser Leu His Val Phe Pro Met Gly Val Leu Glu

50

55

60

Gly Leu Arg Phe Met Cys Cys Phe Arg Phe Lys Leu Trp Trp Met Thr

65

70

75

80

Gln Arg Met Gly Thr Cys Gly Arg Asp Val Pro Leu Glu Thr Gln Phe

85

90

95

Met Leu Ile Glu Ser Lys Glu Ser Glu Thr Asp Gly Glu Asn Ser Pro

100

105

110

Ile Ile Tyr Thr Val Leu Leu Pro Leu Leu Glu Gly Gln Phe Arg Ala

115

120

125

Val Leu Gln Gly Asn Asp Lys Asn Glu Ile Glu Ile Cys Leu Glu Ser

130

135

140

Gly Asp Asn Ala Val Glu Thr Asp Gln Gly Leu His Met Val Tyr Met

145

150

155

160

His Ala Gly Thr Asn Pro Phe Glu Val Ile Asn Gln Ala Val Lys Ala

165

170

175

Val Glu Lys His Met Gln Thr Phe Leu His Arg Glu Lys Lys Arg Leu

180

185

190

Pro Ser Cys Leu Asp Trp Phe Gly Trp Cys Thr Trp Asp Ala Phe Tyr

195

200

205

Thr Asp Val Thr Ala Glu Gly Val Glu Glu Gly Leu Lys Ser Leu Ser

210

215

220

Gln Gly Gly Thr Pro Pro Arg Phe Leu Ile Ile Asp Asp Gly Trp Gln

225

230

235

240

Gln Ile Glu Asn Lys Ala Lys Asp Ala Thr Glu Cys Leu Val Gln Glu

245

250

255

Gly Ala Gln Phe Ala Thr Arg Leu Thr Gly Ile Lys Glu Asn Thr Lys

260

265

270

Phe Gln Lys Lys Leu Gln Asn Asn Glu Gln Met Ser Gly Leu Lys His

275

280

285

Leu Val His Gly Ala Lys Gln His His Asn Val Lys Asn Val Tyr Val

290

295

300

Trp His Ala Leu Ala Gly Tyr Trp Gly Gly Val Lys Pro Ala Ala Thr

305

310

315

320

Gly Met Glu His Tyr Asp Thr Ala Leu Ala Tyr Pro Val Gln Ser Pro

325

330

335

Gly Val Leu Gly Asn Gln Pro Asp Ile Val Met Asp Ser Leu Ala Val

340

345

350

His Gly Leu Gly Leu Val His Pro Lys Lys Val Phe Asn Phe Tyr Asn

355

360

365

Glu Leu His Ala Tyr Leu Ala Ser Cys Gly Val Asp Gly Val Lys Val

370

375

380

Asp Val Gln Asn Ile Ile Glu Thr Leu Gly Ala Gly His Gly Gly Arg

385

390

395

400

Val Ser Leu Thr Arg Ser Tyr His His Ala Leu Glu Ala Ser Ile Ala

405

410

415

Ser Asn Phe Thr Asp Asn Gly Cys Ile Ala Cys Met Cys His Asn Thr

420

425

430

Asp Gly Leu Tyr Ser Ala Lys Gln Thr Ala Ile Val Arg Ala Ser Asp

435

440

445

Asp Phe Tyr Pro Arg Asp Pro Ala Ser His Thr Ile His Ile Ser Ser

450

455

460

Val Ala Tyr Asn Ser Leu Phe Leu Gly Glu Phe Met Gln Pro Asp Trp

465

470

475

480

Asp Met Phe His Ser Leu His Pro Ala Ala Asp Tyr His Ala Ala Ala

485

490

495

Arg Ala Ile Gly Gly Cys Pro Ile Tyr Val Ser Asp Lys Pro Gly Asn

500

505

510

His Asn Phe Asp Leu Leu Lys Lys Leu Val Leu Pro Asp Gly Ser Val

515

520

525

Leu Arg Ala Gln Leu Pro Gly Arg Pro Thr Arg Asp Ser Leu Phe Val

530

535

540

Asp Pro Ala Arg Asp Arg Thr Ser Leu Leu Lys Ile Trp Asn Leu Asn

545

550

555

560

Lys Cys Ser Gly Val Val Gly Val Phe Asn Cys Gln Gly Ala Gly Trp

565

570

575

Cys Lys Ile Glu Lys Lys Thr Arg Ile His Asp Thr Ser Pro Gly Thr

580

585

590

Leu Thr Ala Ser Val Cys Ala Ser Asp Val Asp Leu Ile Thr Gln Val

595

600

605

Ala Gly Ala Glu Trp Leu Gly Asp Thr Ile Val Tyr Ala Tyr Arg Ser

610

615

620

Gly Glu Val Ile Arg Leu Pro Lys Gly Val Ser Ile Pro Val Thr Leu

625

630

635

640

Lys Val Leu Glu Phe Glu Leu Phe His Phe Cys Pro Ile Gln Glu Ile

645

650

655

Ala Pro Ser Ile Ser Phe Ala Ala Ile Gly Leu Leu Asp Met Phe Asn

660

665

670

Thr Gly Gly Ala Val Glu Gln Val Glu Ile His Asn Arg Ala Ala Thr

675

680

685

Lys Thr Ile Ala Leu Ser Val Arg Gly Arg Gly Arg Phe Gly Val Tyr

690

695

700

Ser Ser Gln Arg Pro Leu Lys Cys Val Val Gly Gly Ala Glu Thr Asp

705

710

715

720

Phe Asn Tyr Asp Ser Glu Thr Gly Leu Thr Thr Phe Ser Ile Pro Val

725

730

735

Ser Pro Glu Glu Met Tyr Arg Trp Ser Ile Glu Ile Gln Val

740

745

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<213> Glycine max

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<213> Artificial Sequence

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